## Amendments to the Claims:

encoded in an extended format encoding;

compared to the extended format; and

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Currently Amended) A method of generating compiler products in a compressed form, said
method comprising:
receiving a source program including one or more program symbols and non-program
symbol information:
encoding a program symbol name to produce an encoded program symbol name, without
changing the non-program symbol information;
generating a differential name for the encoded program symbol name relative to a base
symbol for the program symbol, the differential name having a reduced-size format as compared
to the encoded program symbol name; and
compressing a portion of compiler information to obtain compressed related compiler
information wherein the portion of the compiler information being compressed by said
compressing comprises encoded program symbol names; and
producing a compressed compiler product based on at least the compressed compiler
related information including the generated differential name.
2. (Canceled)
3. (Canceled)
4. (Currently Amended) A method as recited in claim 1, wherein said compressing generating
comprises:
identifying an encoded program symbol name within the compiler information that is

base symbol for the program symbol, the differential encoding having a reduced-size format as

determining a differential encoding for the encoded program symbol name relative to a

5. (Currently Amended) A method as recited in claim 4, wherein said eompressing-generating further comprises: determining whether an augmented differential encoding is needed: and if an augmented differential encoding is needed: determining an encoded program symbol name identifier; and attaching the encoded program symbol name identifier to the differential encoding. 6. (Currently Amended) A method as recited in claim 5, wherein the encoded program symbol name identifier is a container reference to indicate base symbol identifier indicating a eontainerbase symbol name associated with at least one of the encoded program symbol names. 7. (Original) A method as recited in claim 1, wherein the source program is written in a programming language selected from a group consisting of Ada, C++, Fortran, Pascal, and Java. 8. (Previously Presented) A method as recited in claim 1, wherein the compressed compiler related product is an object code file. 9. (Previously Presented) A method as recited in claim 1, wherein the compressed compiler related product contains debugger information. 10. (Currently Amended) A method of generating encoded program symbol names in an uncompressed form, the encoded program symbol names being associated with compiler information, said method comprising: receiving a source program including one or more program symbol names: determining whether any program symbol names are in a differential format; identifying a compressed encoded program symbol name being associated with compiler information; for each program symbol name that is in a differential format: extracting a differential program symbol name and a reference to a base symbol

replacing the extended format encoding for the encoded program symbol name in the

compiler information with the differential encoding.

for the program symbol;

using the extracted reference to locate a non-differential name for the base

symbol: and

obtaining information relating to the compressed encoded program symbol name; and

\_\_\_\_\_\_decompressing the differential compressed encoded program symbol name based

on the non-differential name for the base symbol information relating to the compressed encoded program symbol name to obtain an encoded program symbol name in an uncompressed form.

## 11. (Canceled)

- 12. (Currently Amended) A method as recited in claim 1110, wherein the base program symbol is a container of the program symbol that is represented by the compressed encoded program symbol name.
- 13. (Currently Amended) A compilation system suitable for compilation and utilization of source programs, said compilation system comprising:

an enhanced compiler suitable for generation of enhanced compiler products, wherein the enhanced compiler being operable to compiles a source program having at least one compressed encoded program symbol name to produce the enhanced compiler products, the enhanced compiler products having with a reduced size in comparison withto conventional compiler products produced by conventional compilers and including one or more differential names corresponding to the program symbol names; and

at least one enhanced non-compiler component that operable to understands and utilizes the enhanced compiler products.

- 14. (Original) A compiler system as recited in claim 13, wherein reduction of size of the enhanced compiler product is up to 40 percent of sizes of conventional compiler products produced by conventional compilers.
- 15. (Previously Presented) A compiler system as recited in claim 13, wherein the enhanced compiler product is a compiler related product selected from a group consisting of an object file, an executable file, and debugging information.

16. (Previously Presented Currently Amended) A computer readable media medium including
computer program code for generating compiler products in a compressed form, said computer
readable media-medium comprising:
computer program code for receiving a source program including one or more program
symbols and non-program symbol information:
computer program code for encoding a program symbol name to produce an encoded
program symbol name, without changing the non-program symbol information;
computer program code for generating a differential name for the encoded program
symbol name relative to a base symbol for the program symbol, the differential name having a
reduced-size format as compared to the encoded program symbol name; and
computer program code for compressing a portion of compiler information to obtain
compressed related compiler information wherein the portion of the compiler information being
compressed by said compressing comprises encoded program symbol names; and
computer program code for producing a compressed compiler product based on at least
the compressed compiler related information including the generated differential name.

- 17. (Cancelled)
- 18. (Canceled)
- 19. (Currently Amended) A computer readable media-medium as recited in claim 1816, wherein said empressing computer program code for generating comprises:

computer program code for identifying an encoded program symbol name within the compiler information that is encoded in an extended format encoding;

computer program code for determining a differential encoding for the encoded program symbol name relative to a base symbol for the program symbol, the differential encoding having a reduced-size format as compared to the extended format; and

computer program code for replacing the extended format encoding for the encoded program symbol name in the compiler information with the differential encoding.

20. (Currently Amended) A computer readable <u>media-medium</u> as recited in claim 16, wherein the compressed compiler related product is a compiler related product selected from a group consisting of an object file, executable file, and debugging information.

21. (Currently Amended) A computer readable media-mediam including computer program
code generating encoded program symbol names in an uncompressed form, the encoded program
symbol names being associated with compiler information, said computer readable media
medium comprising:
computer program code for receiving a source program including one or more program
symbol names:
computer program code for determining whether any program symbol names are in a
differential format:
eomputer program code for identifying a compressed encoded program symbol name
being associated with compiler information;
for each program symbol name that is in a differential format:
computer program code for extracting a differential program symbol name and a
reference to a base symbol for the program symbol:
computer program code for using the extracted reference to locate a non-
differential name for the base symbol; and
computer program code for obtaining information relating to the compressed encoded
<del>program symbol name; and</del>
computer program code for decompressing the differential compressed encoded program
symbol name based on the non-differential name for the base symbol information relating to the
eompressed encoded program symbol name to obtain an encoded program symbol name in an
uncompressed form.
22. (New) A method as recited in claim 1, wherein the base program symbol is a container
object for the program symbol.